Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	113	(statistical adj process adj control) and regression	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/15 08:56
L2	96	1 and (noise or independent or dependent or orthogonal or confidence)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/15 10:30
L3	114	(noise or variance) with (independent adj variable)	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/15 10:31
L4	52	3 and (regression or (least adj squares))	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/15 10:31

Terms used
noise and **independent** and **variable** and **regression**

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1 Analyses of selected variables effecting video streamed over IP

David A. Rosenthal

May 2004 **International Journal of Network Management**, Volume 14 Issue 3

Full text available: pdf(173.05 KB) Additional Information: full citation, abstract, references, index terms

The goal of this study was to understand the impact of certain variables effecting the transmission of video over Internet Protocol (IP) networks, utilizing data from Peak Signal-to-Noise Ratio (PSNR) and Picture Quality Rating (PQR) measurement metrics.

2 Regression NSS: an alternative to cross validation

Michael P. Perrone, Brian S. Blais

July 1995 **Proceedings of the eighth annual conference on Computational learning theory**

Full text available: pdf(526.54 KB) Additional Information: full citation, references, index terms

3 Efficient learning of monotone concepts via quadratic optimization

David Gamarnik

July 1998 **Proceedings of the eleventh annual conference on Computational learning theory**

Full text available: pdf(1.11 MB) Additional Information: full citation, references, index terms

4 A survey on wavelet applications in data mining

Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogihara

December 2002 **ACM SIGKDD Explorations Newsletter**, Volume 4 Issue 2

Full text available: pdf(330.06 KB) Additional Information: full citation, abstract, references, citings

Recently there has been significant development in the use of wavelet methods in various data mining processes. However, there has been written no comprehensive survey available on the topic. The goal of this is paper to fill the void. First, the paper presents a high-level data-mining framework that reduces the overall process into smaller components. Then applications of wavelets for each component are reviewd. The paper concludes by discussing the impact of wavelets on data mining research an ...

5 Experimental designs for system assessment and improvement when noise factors are correlated
Susan M. Sanchez
December 1994 **Proceedings of the 26th conference on Winter simulation**
Full text available: pdf(669.84 KB) Additional Information: full citation, references, citings, index terms

6 Smoothing time series for input and output analysis in system simulation experiments (tutorial session)
Peter A. W. Lewis, James G. Stevens
December 1990 **Proceedings of the 22nd conference on Winter simulation**
Full text available: pdf(307.34 KB) Additional Information: full citation, references, index terms

7 Regression-based RTL power modeling
Alessandro Bogliolo, Luca Benini, Giovanni De Micheli
July 2000 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 5 Issue 3
Full text available: pdf(391.65 KB) Additional Information: full citation, abstract, references, citings, index terms

Register-transfer level (RTL) power estimation is a key feature for synthesis-based design flows. The main challenge in establishing a sound RTL power estimation methodology is the construction of accurate, yet efficient, models of the power dissipation of functional macros. Such models should be automatically built, and should produce reliable average power estimates. In this paper we propose a general methodology for building and tuning RTL power models. We address both hard macros (presy ...

Keywords: RTL design, RTL power modeling, adaptive characterization, functional macros, regression models

8 Economies of scale in computing: Grosch's law revisited
Haim Mendelson
December 1987 **Communications of the ACM**, Volume 30 Issue 12
Full text available: pdf(644.31 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Does Grosch's law apply in the 1980s? A look at the price and performance of computer systems concludes that there are no economies of scale in computing. Computer technology is characterized by constant returns to scale, a fact that has important implications on future centralization/decentralization decisions.

9 A modified random perturbation method for database security
Patrick Tendick, Norman Matloff
March 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 1
Full text available: pdf(1.04 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The random data perturbation (RDP) method of preserving the privacy of individual records in a statistical database is discussed. In particular, it is shown that if confidential attributes are allowed as query-defining variables, severe biases may result in responses to queries. It is also shown that even if query definition through confidential variables is not allowed, biases can still occur in responses to queries such as those involving proportions or counts.

In either ...

Keywords: bias, correlation, noise addition, random perturbation method

10 Special issue on independent components analysis: Overlearning in marginal distribution-based ICA: analysis and solutions
Jaakko Särelä, Ricardo Vigáário
December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: pdf(3.48 MB) Additional Information: full citation, abstract, index terms

The present paper is written as a word of caution, with users of independent component analysis (ICA) in mind, to overlearning phenomena that are often observed.We consider two types of overlearning, typical to high-order statistics based ICA. These algorithms can be seen to maximise the negentropy of the source estimates. The first kind of overlearning results in the generation of spike-like signals, if there are not enough samples in the data or there is a considerable amount of noise present. ...

11 Computing parametric yield adaptively using local linear models
Mien Li, Linda Milar
June 1996 **Proceedings of the 33rd annual conference on Design automation**

Full text available: pdf(357.06 KB) Additional Information: full citation, references, citings, index terms

12 Special issue on kernel methods: Kernel partial least squares regression in reproducing kernel hilbert space
Roman Rosipal, Leonard J. Trejo
March 2002 **The Journal of Machine Learning Research**, Volume 2

Full text available: pdf(260.73 KB) Additional Information: full citation, abstract

A family of regularized least squares regression models in a Reproducing Kernel Hilbert Space is extended by the kernel partial least squares (PLS) regression model. Similar to principal components regression (PCR), PLS is a method based on the projection of input (explanatory) variables to the latent variables (components). However, in contrast to PCR, PLS creates the components by modeling the relationship between input and output variables while maintaining most of the information in the inpu ...

13 Articles on microarray data mining: Supervised analysis when the number of candidate features (p) greatly exceeds the number of cases (n)
Richard Simon
December 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 2

Full text available: pdf(183.08 KB) Additional Information: full citation, abstract, references

New genomic and proteomic technologies provide measurements of thousands of features for each case. This provides a context for enhanced discovery and false discovery. Most statistical and machine learning procedures were not developed for the p>>n setting and the literature of DNA microarray studies contains many examples of mis-use of analytic and computatinal methods such a cross-validation. This paper highlights some of key aspects of p>>n problems for identifying informative fea ...

Keywords: classification, cross-validation, prediction

14 Special issue on special feature: Ranking a random feature for variable and feature

selection
Hervé Stoppiglia, Gérard Dreyfus, Rémi Dubois, Yacine Oussar
March 2003 **The Journal of Machine Learning Research**, Volume 3

Full text available: pdf(103.01 KB) Additional Information: full citation, abstract, index terms

We describe a feature selection method that can be applied directly to models that are linear with respect to their parameters, and indirectly to others. It is independent of the target machine. It is closely related to classical statistical hypothesis tests, but it is more intuitive, hence more suitable for use by engineers who are not statistics experts. Furthermore, some assumptions of classical tests are relaxed. The method has been used successfully in a number of applications that are brie ...

15 Variance reallocation in Taguchi's robust design framework
Lee W. Schruben, Susan M. Sanchez, Paul J. Sanchez, Veronica A. Czitrom
December 1992 **Proceedings of the 24th conference on Winter simulation**

Full text available: pdf(917.75 KB) Additional Information: full citation, references, citings, index terms

16 Tree induction vs. logistic regression: a learning-curve analysis
Claudia Perlich, Foster Provost, Jeffrey S. Simonoff
December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: pdf(263.37 KB) Additional Information: full citation, abstract, citings, index terms

Tree induction and logistic regression are two standard, off-the-shelf methods for building models for classification. We present a large-scale experimental comparison of logistic regression and tree induction, assessing classification accuracy and the quality of rankings based on class-membership probabilities. We use a learning-curve analysis to examine the relationship of these measures to the size of the training set. The results of the study show several things. (1) Contrary to some prior o ...

17 Walking > walking-in-place > flying, in virtual environments
Martin Usoh, Kevin Arthur, Mary C. Whitton, Rui Bastos, Anthony Steed, Mel Slater, Frederick P. Brooks
July 1999 **Proceedings of the 26th annual conference on Computer graphics and interactive techniques**

Full text available: pdf(127.13 KB) Additional Information: full citation, references, citings, index terms

Keywords: human factors, locomotion, neural networks, presence, virtual reality, virtual walking, visual cliff

18 Special issue on special feature: Benefitting from the variables that variable selection discards
Rich Caruana, Virginia R. de Sa
March 2003 **The Journal of Machine Learning Research**, Volume 3

Full text available: pdf(131.96 KB) Additional Information: full citation, abstract, index terms

In supervised learning variable selection is used to find a subset of the available inputs that accurately predict the output. This paper shows that some of the variables that variable selection discards can beneficially be used as extra outputs for inductive transfer. Using discarded input variables as extra outputs forces the model to learn mappings from the variables that were selected as inputs to these extra outputs. Inductive transfer makes what is learned by these mappings available to th ...

19 Solving regression problems with rule-based ensemble classifiers

Nitin Indurkhya, Sholom M. Weiss

August 2001 **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(556.71 KB) Additional Information: full citation, abstract, references, index terms

We describe a lightweight learning method that induces an ensemble of decision-rule solutions for regression problems. Instead of direct prediction of a continuous output variable, the method discretizes the variable by k-means clustering and solves the resultant classification problem. Predictions on new examples are made by averaging the mean values of classes with votes that are close in number to the most likely class. We provide experimental evidence that this indirect approach can often yi ...

20 Special issue on special feature: Dimensionality reduction via sparse support vector machines

Jinbo Bi, Kristin Bennett, Mark Embrechts, Curt Breneman, Minghu Song

March 2003 **The Journal of Machine Learning Research**, Volume 3

Full text available: pdf(243.71 KB) Additional Information: full citation, abstract, index terms

We describe a methodology for performing variable ranking and selection using support vector machines (SVMs). The method constructs a series of sparse linear SVMs to generate linear models that can generalize well, and uses a subset of nonzero weighted variables found by the linear models to produce a final nonlinear model. The method exploits the fact that a linear SVM (no kernels) with l_1-norm regularization inherently performs variable selection as a side-effect of minimizin ...

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